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DIRECTOR OF CENTRAL INTELLIGENCE
Scientific and Technical Intelligence Committee

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Copy No. 5
30 July 1982

MEMORANDUM FOR: Deputy Director of Central Intelligence

FROM: [redacted] 25X1
Chairman, Scientific and Technical
Intelligence Committee

SUBJECT: Microelectronics Case Studies Requested by Commerce for COCOM Negotiations [redacted] 25X1

REFERENCES:
A. Memorandum to the DDCI from Bohdan Denysyk, Deputy Assistant Secretary for Export Administration, Department of Commerce, dated 10 May 1982, Executive Registry No. 82-0037/5
B. Memorandum to the DDI from [redacted] 25X1
[redacted] Acting Director of Scientific 25X1
and Weapons Research, dated 28 May 1982, DDI Registry No. 3952-82/1

1. As requested, the Scientific and Technical Intelligence Committee (STIC) has prepared the attached report, "Case Studies of Microelectronics Technology Transfer to the USSR", for Deputy Assistant Secretary of Commerce Denysyk. This report focuses upon the Soviet acquisition and copying of U.S. Transistor-Transistor Logic (TTL) integrated circuit technology during the 1960s and 1970s. The report concludes that the Soviet series 133/155 integrated circuits are direct copies of the U.S. Texas Instruments SN 5400/7400 series transistor-transistor logic integrated circuits. The report shows [redacted] Soviets achieved mass production of their copies 25X1

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by acquiring U.S. manufacturing equipment and know-how through a number of mechanisms. The report also shows how the Soviet copies are now being used in Soviet weapon systems.

2. The STIC Solid State Electronics Working Group, which prepared the report, believes that this is the best single case of technology transfer currently available which provides the depth and detail requested by Deputy Assistant Secretary Denysyk. The report also briefly discusses other cases which are believed to be significant examples of technology transfer, but lack of equally detailed information prevents a similarly detailed presentation at this time.

4. We feel this report provides a compelling and convincing example of the military impact of the transfer of Western and Japanese technology to the USSR and we believe it to be the first of its kind ever produced. Please do not hesitate to contact me or the STIC Secretariat if you require any further information.

Attachment:

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